

**ISyE 4803-REV: Advanced Manufacturing Systems Modeling and Analysis**  
**Instructor: Spyros Reveliotis**  
**Fall 2019**

**Homework #2**

**Due Date: Monday, 9/30/19**

**Reading Assignment**

- Sections 3.1 to 3.5 and the appendix in Chapter 3 of your textbook.
- Your notes from the class lectures.
- Another nice reference to the material covered in class is the excerpt from Hillier's and Lieberman's book that is posted in the course electronic reserves, under the title "An introduction to the theory of Markovian queueing stations". This material covers also the M/M/s and M/M/s/K queues that I discussed in class and are not covered in your textbook.

**Problem set:**

Solve problems 3.1, 3.3, 3.4, 3.5, 3.7, 3.16 and 3.20 at the end of Chapter 3 of your textbook.